

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A perpendicular magnetic recording medium comprising:
  - a substrate;
  - at least one underlayer formed above the substrate; and
  - a perpendicular magnetic recording layer formed above the at least one underlayer, an easy magnetization axis of the perpendicular magnetic recording layer being oriented perpendicular to the substrate, the at least one underlayer has a granular structure including metal particles and grain boundaries surrounding the metal particles and the perpendicular magnetic recording layer including magnetic crystal particles and grain boundaries surrounding the magnetic crystal particles,
    - wherein the granular underlayer contains Ru as the metal particles and the grain boundaries of the metal particles contain silicon oxide and an oxide of at least one element selected from the group consisting of Li, Na, K, Rb and Cs
    - the magnetic crystal particles contain Co as the main component and further contain Pt and Cr and the grain boundaries contain an oxide of silicon and an oxide of at least one element selected from the group consisting of Li, Na, K, Rb, and Cs, and
    - the ratio of a total amount of silicon oxide and at least one oxide of Si, Li, Na, K, Rb, and Cs in the granular underlayer is no less than 1 mol% and no more than 20 mol%

wherein a ratio of total amount of one oxide of Li, Na, K, Rb, and Cs contained at the grain boundaries in the perpendicular magnetic recording layer is no less than 1 mol% and no more than 30 mol% based on the total moles of the oxides of silicon and Li, Na, K, Rb, and Cs contained at the grain boundaries.

2. and 3. (canceled).

4. (currently amended): The perpendicular magnetic recording medium according to claim 1, wherein ~~at least one of~~ the at least one underlayer comprises said granular underlayer and further comprises a second underlayer that contains at least one element selected from the group consisting of Ru, Ti, Rh, Pt, Pd, and Ir as a main component.

5. (currently amended): The perpendicular magnetic recording medium according to claim 1, wherein; ~~at least one of~~ the at least one underlayer comprises said granular underlayer and further comprises a second underlayer that is made of non-magnetic crystal particles containing at least one element selected from the group consisting of Ru, Ti, Rh, Pt, Pd, and Ir as a main component, and grain boundaries surrounding the non-magnetic crystal particles, and the grain boundaries contain an oxide of at least one element selected from the group consisting of Si, Cr, and Ti.

6. (currently amended): The perpendicular magnetic recording medium according to claim 5, wherein the grain boundaries in ~~at least one of the at least one~~ the second underlayer contain

an oxide of silicon and at least one element selected from the group consisting of Li, Na, K, Rb, and Cs.

7. (currently amended): The perpendicular magnetic recording medium according to claim 6, wherein ~~a ratio of the total amount of silicon oxide oxides of Si, and at least one oxide of Li, Na, K, Rb, and Cs to an amount of silicon oxide in the at least one second underlayer is no less than 1 mol% and no more than 20 mol%~~.

8. (currently amended): The perpendicular magnetic recording medium according to claim 6, wherein a ratio of total amount of oxides of Li, Na, K, Rb, and Cs contained at the grain boundaries in the ~~at least one second~~ underlayer is no less than 1 mol% and no more than 30 mol% ~~based on the total moles of the oxides of silicon and Li, Na, K, Rb, and Cs contained at the grain boundaries of the second underlayer.~~

9. to 18. (canceled).

19. (original): A magnetic read/write apparatus comprising the perpendicular magnetic recording medium according to claim 1 and a read/write head.

20. (original): The magnetic read/write apparatus according to claim 19, wherein the read/write head is a single magnetic pole recording head.

21. (new): The perpendicular magnetic recording medium according to claim 1, wherein the ratio of total amount of oxides of Li, Na, K, Rb, and Cs contained at the grain boundaries in the granular underlayer is no less than 1 mol% and no more than 30 mol% based on the total moles of the oxides of silicon and Li, Na, K, Rb, and Cs contained at the grain boundaries of the granular underlayer.